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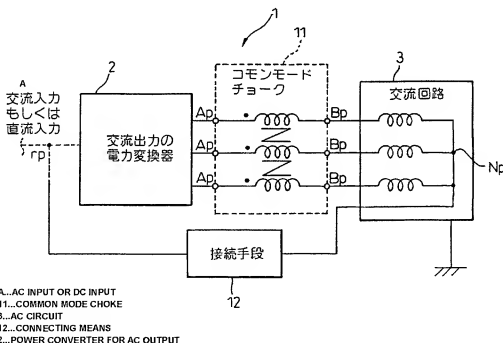
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- (51) 国際特許分類: H02M 1/12 (71) 出願人 (米国を除く全ての指定国について): 財団法人 理工学振興会 (THE CIRCLE FOR THE PROMOTION OF SCIENCE AND ENGINEERING) [JP/JP]; 〒152-8550 東京都目黒区大岡山2-1 2-1 Tokyo (JP).
- (21) 国際出願番号: PCT/JP2003/003119 (72) 発明者; および
- (22) 国際出願日: 2003年3月14日 (14.03.2003) (75) 発明者/出願人 (米国についてのみ): 赤木 泰文 (AK-AGI, Hirofumi) [JP/JP]; 〒152-8550 東京都目黒区大岡山2-1 2-1 東京工業大学内 Tokyo (JP).
- (25) 国際出願の言語: 日本語 (74) 代理人: 石田 敬, 外 (ISHIDA, Takashi et al.); 〒105-8423 東京都港区虎ノ門三丁目5番1号虎ノ門3 7森ビル 青和特許法律事務所 Tokyo (JP).
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[続葉有]

(54) Title: FILTER

(54) 発明の名称: フィルタ装置



(57) Abstract: A filter for suppressing an electromagnetic interference occurring in an AC circuit being connected with a power converter of AC output. The filter comprises a common mode choke being connected between any one terminal of the power converter on the input side, the output side or the DC side and the input terminal of the AC circuit, and means for connecting the lead wire from the neutral of the AC circuit to a reference potential point on the farther upstream side of the common mode choke where potential variation is suppressed.

(57) 要約: 交流出力の電力変換器に接続される交流回路に発生する電磁障害を抑制するフィルタ装置である。このフィルタ装置は、電力変換器の入力側、出力側

[続葉有]



DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU,
ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT,
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添付公開書類:

— 国際調査報告書

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/03119

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl⁷ H02M1/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ H02M1/00-1/30, 7/42-7/98, H02P7/63, H02J3/00-5/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Toroku Jitsuyo Shinan Koho	1994-2003
Kokai Jitsuyo Shinan Koho	1971-2003	Jitsuyo Shinan Toroku Koho	1996-2003

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	Hiroshi HASEGAWA et al., "Common Mode Den'atsu o Hassei Shinai Seigenpa Den'atsu Shutsuryoku PWM Inverter System-Passive EMI Filter no Sekkei to Tokusei-", Denki Gakkai Kenkyukai Shiryo, Handotai Denryoku Henkan Sangyo Denryoku Denki Oyo Godo Kenkyukai SPC-01-119, 09, November, 2001 (09.11.01), pages 35 to 40, full text; Fig. 1	1-14
Y	Takashi DOMOTO et al., "Passive EMI Filter o Secchi shita Den'atsu-kei NPC(3Level) PWM Inverter no Shutsuryoku Tokusei", Denki Gakkai Zenkoku Taikai Koen Ronbunshu, 26 March, 2002 (26.03.02), pages 238 to 239; full text; Fig. 1	1-14

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

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Date of the actual completion of the international search
09 June, 2003 (09.06.03)Date of mailing of the international search report
24 June, 2003 (24.06.03)Name and mailing address of the ISA/
Japanese Patent Office

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/03119

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 11-220898 A (Daikin Industries, Ltd.), 10 August, 1999 (10.08.99), Par. Nos. [0035] to [0038]; Figs. 1, 2 (Family: none)	1-14
Y	JP 2001-245477 A (Mitsubishi Electric Corp.), 07 September, 2001 (07.09.01), Full text; Figs. 1, 5, 13, 15 (Family: none)	1-14
Y	JP 2001-69762 A (Mitsubishi Electric Corp.), 16 March, 2001 (16.03.01), Par. Nos. [0043] to [0052]; Fig. 1 (Family: none)	5-7,11-13
Y	JP 2001-238433 A (Meidensha Corp.), 31 August, 2001 (31.08.01), Full text; Figs. 1 to 10 (Family: none)	5-7,11-13
A	Hiroshi HASEGAWA et al., "Passive EMI Filter no Serge Den'atsu Seigyo Koka -100m Cable de Inverter to Motor o Setsuzoku shita Baai-", Denki Gakkai Zenkoku Taikai Koen Ronbunshu, 26 March, 2002 (26.03.02), pages 241 to 242, full text; Figs. 1 to 3	1-14
A	Hiroshi Hasegawa et al., "Common Mode Den'atsu o Hassei shinai Sanso Seigenpa Den'atsu Shutsuryoku PWM Inverter System -Passive EMI Filter no Sekkei to Tokusei-", The Transactions of the Institute of Electrical Engineers of Japan. D, 01 August, 2002 (01.08.02), Vol.122-D, No.8, pages 845 to 852, full text; Figs. 1 to 15	1-14
A	Takashi DOMOTO et al., "Motor Chuseisen o Riyo shita Passive EMI Filter", Denki Gakkai Zenkoku Taikai Koen Ronbunshu, 17 March, 2003 (17.03.03), pages 124 to 125, full text; Figs. 1 to 6	1-14